



# ES50-12

## SPECIFICATIONS

**Nominal Voltage (V)** 12V

### Nominal Capacity

20 hour rate ( 2.5A to 10.50V )	50Ah
10 hour rate ( 4.75A to 10.50V )	47.5Ah
5 hour rate ( 8.5A to 10.20V )	42.5Ah
1C ( 50A to 9.60V )	31.67Ah
3C ( 150A to 9.60V )	20Ah

**Weight** Approx. 33.20Lbs. (15.0kg)

**Internal Resistance (at 1KHz)** Approx. 5 mΩ

**Maximum Discharge Current for 5 seconds :** 600A

### Operating Temperature Range

Charge	-15°C ( 5°F ) to 40°C (104°F )
Discharge	-15°C ( 5°F ) to 50°C (122°F )
Storage	-15°C ( 5°F ) to 40°C (104°F )

### Charge Retention (shelf life) at 20°C ( 68°F )

1 month	98%
3 months	94%
6 months	85%

### Charging Methods at 25°C ( 77°F )

**Cycle Use :** Charging Voltage 14.4 to 15.0V  
Coefficient -5.0mv / °C / cell  
Maximum Charging Current : 15A

**Standby Use :** Float Charging Voltage 13.50 to 13.80V  
Coefficient -3.0mv / °C / cell

**Case Material :** ABS  
(Option : UL94 HB Flame Retardant)

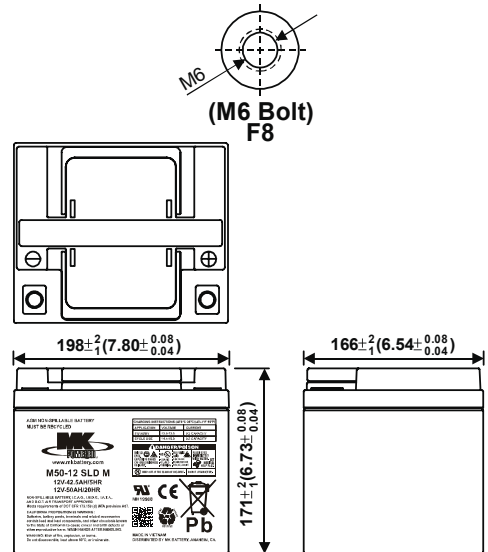
**Terminal :** F8

Description of torque value of hardware for the terminals:  
Recommended torque value M6: 5.39 N-m (55kg-cm)  
Maximum allowable torque value M6: 8.82 N-m (90kg-cm)

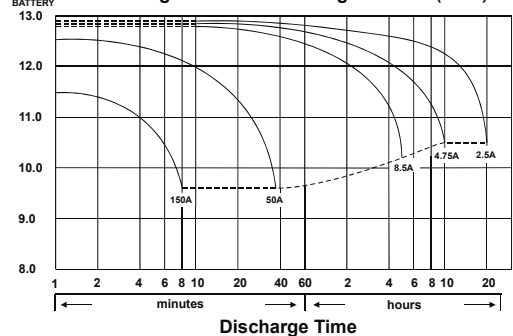
## Maintenance-Free Rechargeable Sealed Lead-Acid Battery



## DIMENSIONS



(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)



## MK Battery

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